

OIB - HU-25C Guardian #524 09/09/16 Science Report

Aircraft:

[HU-25A Guardian #524](#) ([See full schedule](#))

Date:

Friday, September 9, 2016

Mission:

OIB

Mission Location:

Kangerlussuaq, Greenland

Mission Summary:

Mission: Falcon Thomas-Jakobshavn 01 (priority: high)

This mission is identical to the Thomas-Jakobshavn 01 mission flown in Spring 2016, but shortened by eliminating the portions of that flight devoted to the dense 10-km grid on lower Jakobshavn Glacier. It continues an IceBridge time series flown along this IceSat-1 grid every spring from 2009 to 2016.

Weather across west-central Greenland was generally good this afternoon, but there were several areas of concern for this particular high-priority mission. The most important was a deck of low stratus clouds covering 15-20% of the flightlines, at the mission's southeastern corner. We knew this would cause some loss of data, but we also knew that this area would be easy to "mop-up" on a better day given its proximity to Kangerlussuaq. Satellite imagery also showed cirrus clouds, and a fog bank, in the interior of the ice sheet. We took our chances that we could stay below the cirrus and west of the fog. In the end, we threaded this needle well, losing only the southeasternmost portions of the lines. We successfully collected data along 80% of the mission.

All instruments performed well.

Data volumes:

CAMBOT: 11 Gb images

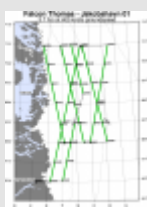
Narrow Swath ATM: 19 Gb

FLIR: 6.2 Gb

total data collection time: 3.0 hrs

Images:

Map of Falcon - Thomas Jakobshavn 01



[Read more](#)

Glaciers north of Jakobshavn



[Read more](#)

Jakobshavn Glacier



[Read more](#)

Submitted by:

John Sonntag on 09/09/16

Related Flight Report:

HU-25A Guardian #524 09/09/16

Flight Number:

OIB 2016 on HU-25 #26

Payload Configuration:

ATM

Nav Data Collected:

No

Total Flight Time:

3.5 hours

Submitted by:

Richard Yasky on 09/09/16

Flight Segments:

From:	BGSF	To:	BGSF
Start:	09/09/16 15:17 Z	Finish:	09/09/16 18:45 Z
Flight Time:	3.5 hours		
Log Number:	16F003	PI:	Nathan Kurtz
Funding Source:	Thomas Wagner - NASA - SMD - ESD Cryosphere & International Polar Year		
Purpose of Flight:	Science		
Comments:	Flew 6 lines in the Thomas Jakobshavn plan with 2 lines shortened to accommodate return fuel requirements with poor airfield weather. Deleted segments of the plan that showed low stratus clouds on previous flight. No ramp passes attempted due to snow and rain showers around Kangerlussuaq. Approximately 85-90 percent data coverage on the lines flown.		

Flight Hour Summary:

	16F003
Flight Hours Approved in SOFRS	121.25
Total Used	126.9
Total Remaining	-5.65

16F003 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining
06/29/16	OIB 2016 on HU25A ICF	Science	2	2	119.25
07/11/16	OIB 2016 on HU25A #1	Ferry	2.6	4.6	116.65
07/11/16	OIB 2016 on HU25A #2	Ferry	2.5	7.1	114.15
07/11/16 - 07/12/16	OIB 2016 on HU25A #3	Ferry	2.2	9.3	111.95
07/12/16 - 07/13/16	OIB 2016 on HU25A #4	Ferry	2.6	11.9	109.35
07/13/16	OIB 2016 on HU25A #5	Science	3.4	15.3	105.95

07/14/16	OIB 2016 on HU25A #6	Science	3.5	18.8	102.45
07/15/16	OIB 2016 on HU25A #7	Science	3.7	22.5	98.75
07/19/16 - 07/20/16	OIB 2016 on HU25A #8	Science	3.6	26.1	95.15
07/20/16	OIB 2016 on HU25A #9	Science	3.4	29.5	91.75
07/21/16	OIB 2016 on HU25A #10	Science	3.6	33.1	88.15
07/22/16	OIB 2016 on HU25A #11	Ferry	3.9	37	84.25
07/22/16	OIB 2016 on HU25A #12	Ferry	3.2	40.2	81.05
07/22/16	OIB 2016 on HU25A #13	Ferry	2.1	42.3	78.95
08/23/16	OIB 2016 on HU-25 #14	Science	2.3	44.6	76.65
08/25/16	OIB 2016 on HU-25 #15	Ferry	3.2	47.8	73.45
08/25/16	OIB 2016 on HU-25 #16	Ferry	2.2	50	71.25
08/27/16	OIB 2016 on HU-25 #17	Science	3.7	53.7	67.55
08/29/16	OIB 2016 on HU-25 #18	Science	3.8	57.5	63.75
08/29/16	OIB 2016 on HU-25 #19	Science	3.5	61	60.25
09/01/16	OIB 2016 on HU-25 #20	Science	3.4	64.4	56.85
09/02/16	OIB 2016 on HU-25 #21	Science	3.8	68.2	53.05
09/02/16	OIB 2016 on HU-25 #22	Science	3.8	72	49.25
09/05/16	OIB 2016 on HU-25 #23	Science	0.6	72.6	48.65
09/06/16	OIB 2016 on HU-25 #24	Science	3.5	76.1	45.15
09/09/16	OIB 2016 on HU-25 #25	Science	3.5	79.6	41.65
09/09/16	OIB 2016 on HU-25 #26	Science	3.5	83.1	38.15
09/10/16	OIB 2016 on HU-25 #27	Science	3	86.1	35.15
09/11/16	OIB 2016 on HU-25 #28	Science	3.9	90	31.25
09/11/16	OIB 2016 on HU-25 #29	Science	3.7	93.7	27.55
09/12/16	OIB 2016 on HU-25 #30	Science	3.3	97	24.25
09/12/16	OIB 2016 on HU-25 #31	Science	2.7	99.7	21.55
09/13/16	OIB 2016 on HU-25 #32	Science	4	103.7	17.55
09/13/16	OIB 2016 on HU-25 #33	Science	2.9	106.6	14.65
09/15/16	OIB 2016 on HU-25 #34	Science	3.7	110.3	10.95

09/16/16	OIB 2016 on HU-25 #35	Ferry	2.4	112.7	8.55
09/16/16	OIB 2016 on HU-25 #35	Ferry	1.7	114.4	6.85
09/16/16	OIB 2016 on HU-25 #35	Ferry	1.7	116.1	5.15
09/17/16	OIB 2016 on HU-25 #38	Ferry	2.8	118.9	2.35
09/17/16	OIB 2016 on HU-25 #38	Ferry	2.9	121.8	-0.55
09/19/16	OIB 2016 on HU-25 #40	Ferry	2.5	124.3	-3.05
09/19/16	OIB 2016 on HU-25 #40	Ferry	2.6	126.9	-5.65

Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.

[NASA Home](#)

Page Last Updated: April 22, 2017

Page Editor: Erin Justice

NASA Official: Bruce A.

Tagg

- [Budgets, Strategic Plans and Accountability Reports](#)
- [Equal Employment Opportunity Data Posted Pursuant to the No Fear Act](#)
- [Information-Dissemination Policies and Inventories](#)
- [Freedom of Information Act](#)
- [Privacy Policy & Important Notices](#)
- [NASA Advisory Council](#)
- [Inspector General Hotline](#)
- [Office of the Inspector General](#)
- [NASA Communications Policy](#)
- [Contact NASA](#)

- [Site Map](#)
- [USA.gov](#)
- [Open Government at NASA](#)

Source URL: https://airbornescience.nasa.gov/science_reports/OIB_-_HU-25C_Guardian_524_09_09_16_Science_Report_0?destination=node/43781